

Materials Science and Engineering (MR)

Degree Requirements

Code	Title	Hours	Counts towards
Required Courses		18	
Select a minimum of 18 credit hours of 500- to 700-level MSE courses approved in conjunction with the academic committee			
Additional Courses		12	
"Additional Courses" are approved in conjunction with the academic committee and may come from graduate-level courses in MSE or other technical disciplines			
Total Hours		30	

This degree program also provides an opportunity for the Directors of Graduate Programs (DGPs) at NC State to recruit rising juniors in their major to their graduate programs. However, permission to pursue an ABM degree program does not guarantee admission to the Graduate School. Admission is contingent on meeting eligibility requirements at the time of entering the graduate program.

Accelerated Bachelor's/Master's Degree Requirements

Undergraduate Requirements

The following undergraduate programs meet the undergraduate requirements for the Accelerated Bachelor's / Master's (ABM):

- Materials Science Engineering (<http://catalog.ncsu.edu/undergraduate/engineering/materials-science-engineering/materials-science-engineering-bs/#planrequirementstext>) (BS) (<http://catalog.ncsu.edu/undergraduate/engineering/materials-science-engineering/materials-science-engineering-bs/#planrequirementstext>)
- Materials Science Engineering (BS): Biomaterials Concentration (<http://catalog.ncsu.edu/undergraduate/engineering/materials-science-engineering/materials-science-engineering-bs-biomaterials-concentration/>)
- Materials Science Engineering (BS): Nanomaterials Concentration (<http://catalog.ncsu.edu/undergraduate/engineering/materials-science-engineering/materials-science-engineering-bs-nanomaterials-concentration/>)

Double-Counted Courses

After taking 12 credit hours of double-counted courses in the BS degree, only 18 hours remain for completion of either master's degree in the fifth year.

Code	Title	Hours	Counts towards
The following courses may be double-counted between the Bachelor's and Master's degrees:			

MSE/NE 409/ MSE 509/NE 509	Nuclear Materials	3
MSE 440/540	Processing of Metallic Materials	3
MSE 445/545	Ceramic Processing	3
MSE 455/555	Polymer Technology and Engineering	3
MSE 456/556	Composite Materials	3
MSE 460/560	Microelectronic Materials	3
MSE 465/565	Introduction to Nanomaterials	3
MSE 480/580	Materials Forensics and Degradation	3

Faculty

Adjunct Professors

Harald Ade

David E. Aspnes

Charles M. Balik

Salah M. A. Bedair

Donald Wayne Brenner

Jerome J. Cuomo

Michael David Dickey

Jan Genzer

Russell E. Gorga

Carol K. Hall

Ola Lars Anders Harrysson

Ayman I. Hawari

Douglas Lee Irving

Albena Ivanisevic

Jacob L. Jones

Jesse Jur

Carl C. Koch

Thomas H. LaBean

Harold Henry Lamb

Frances Smith Ligler

James D. Martin

Veena Misra

Korukonda Linga Murty
Jagdish Narayan
Roger Jagdish Narayan
Gregory N. Parsons
Melissa Anne Pasquinelli
Zlatko Sitar
Franky So
Richard J. Spontak
Joseph B. Tracy
Daryoosh Vashaei
Orlin Dimitrov Velez
Yaroslava G Yingling
Xiangwu Zhang
Yong Zhu
Aram Amassian
Ashley Carson Brown
Ramon R. Collazo
Rajeev Kumar Gupta
Djamel Kaoumi
Jagannadham Kasichainula
Divine Philip Kumah
Nina Wisinger
Ruijuan Xu
Timothy Joseph Horn
Kaveh Ahadi
Veronica Augustyn
Wenpei Gao
Srikanth Patala
Ge Yang
Reza A Ghiladi
John F Muth
Claude Lewis Reynolds Jr.
Hans Conrad
Robert F. Davis
Elizabeth Carol Dickey
Nadia El-Masry

John Joseph Hren
Jacqueline Krim
Gerald Lucovsky
Jon-Paul Maria
Khosrow L. Moazed
Ronald O. Scattergood
John S. Strenkowski
Yuntian T. Zhu
Cheryl Cass
Barry Farmer
Charles Richard Guarnieri
James Michael LeBeau
Tania Milkova Paskova
John T. Prater
Justin Schwartz
Victor Zhirnov

Full Professors

Martin Thuo

Bharat Gwalani
Yin Liu